NAP 001 and NAP 002

MAIN FEATURES

- L1 only (NAP 001) or L1/L2 (NAP 002) GPS reception
- Geodetic design
- Low-noise, 42-dB high-gain amplifier
- Ultimate L2 selectivity (NAP 002)

TECHNICAL SPECIFICATIONS

- GPS/GNSS reception
 - s Microstrip antennas
 - s L1: 1575.42 MHz
 - s L2: 1227.60 MHz (NAP002 only)
 - s Right-hand circular polarisation

Elevation pattern

- s Directivity (for L1 and L2)
 - Zenith: > 7 dBic
 - 20°/horizon: 0 dBic
 - Horizon : -4 dBic
- s Phase centre
 - L1 and L2 phase centres located at the same point (24 mm above mounting plan)
 - Millimetre level stability for all elevation and azimuth angles

Low Noise Amplifier

- s Gain (for L1 and L2) : $42dB \pm 3 dB$
 - Note : this gain allows up to 24 dB loss in the cable to the receiver (30-metre RG223 cable)
- s Noise level: 2.5 dB typical (including RF filter)
- s 3 dB pass band
 - $-L1: 1575.42 \pm 12.5 \text{ MHz}$
 - L2: 1227.60 ± 22.5 MHz (NAP 002)
- s Out-of-band rejection
 - L1 : 1575.42 \pm 30 MHz at -30 dB and \pm 50 MHz at -50 dB
 - L2 : 1227.60 + 50/-40 MHz at -30 dB and + 80/-60 MHz at -50 dB (NAP 002)

PHYSICAL SPECIFICATIONS

Power

- ${\tt s}$ Voltage : 5 to 13 V DC 55 mA typical
- Size
- s (Hx≥) : 44x143 mm
- s Weight: 0.35 kg approx.

Environment

- $_{\mbox{\scriptsize S}}$ Humidity 100% fully sealed : IP 67
- s Temperature :
 - Operating: -40°C, +65°C
 - Storage : -40°C, + 70°C
- s Vibrations : MIL 514-3 IT 2521
- s Shock: IT 2521

• Interfacing / Mounting

- s Using 3xM4 screws Mounting ≥ : 64 mm
- s Fitted with 5/8" adapter
- ${\tt s}$ TNC-female coaxial connector 50 ohms

NAP 001

The NAP 001 and NAP 002 are DSNP-designed GPS/GNSS active geodetic antennas. They are specifically suited for accurate surveying in land or marine environ-

The NAP 001 and 002 feature an enhanced level of performance owing to their very good selectivity, optimised low-noise amplifier and outstanding directivity. This gives these antennas the ability to operate in harsh radio-frequency environments.

DSNP follows a policy of continuous product improvement. Specifications and descriptions are thus subject to change without notice



DSNP: a subsidiary of THOMSON-CSF
ZAC de la Fleuriaye B.P. 433 44474 CARQUEFOU Cedex France
Tel. +33 (0)2 28 09 38 00 Fax +33 (0)2 28 09 39 39
Web www.dsnp.com